In the Specification:

Please amend the specification as shown:

In the title: METHOD FOR GENO-GENOTYPING AND PATHOTYPING PSEUDOMONAS AERUGINOSA

Please delete the paragraphs on page 13, line 15 to page 19, line 29 and replace them with the following paragraphs:

In the following, those oligonucleotides or nucleic acid probe molecules are listed, which or whose modifications described below are suitable for genotyping and pathotyping of *Pseudomonas aeruginosa*.

GCGGAAAACTTCCTGCACATGATGTT (SEQ ID NO: 1)

GCGGAAAACTTCCTCCACATGATGTT (SEQ ID NO: 2)

AGCTCAGCAGACTGCTGACGAGG (SEQ ID NO: 3)

AGCTCAGCAGACCGCTGACGAG (SEQ ID NO: 4)

AAGAGGACGCCGCCGGGTGACGCC (SEQ ID NO: 5)

AAGAGGACGCCGCCAGGTGACGCCG (SEQ ID NO: 6)

GACAAGATGCGCCTCGACGACC (SEQ ID NO: 7)

GACAAGATGCGTCTCGACGACCG (SEQ ID NO: 8)

AGCCGACCTACGCGCCGGGCAG (SEQ ID NO: 9)

CAGCCGACCTATGCGCCGGGCAG (SEQ ID NO: 10)

CCGTTCGAACGGCTCATGGAGCA (SEQ ID NO: 11)

GCCGTTCGAACGACTCATGGAGCA (SEQ ID NO: 12)

TGGAGCAGCAAGTGTTCCCGGC (SEQ ID NO: 13)

TGGAGCAGCAACTGTTCCCGGC (SEQ ID NO: 14)

GAACAAGACCGGTTCCACCAACGG (SEQ ID NO: 15)

AACAAGACCGGCTCCACCAACGG (SEQ ID NO: 16)

GCGACCTGGGCCTGGTGATCCT (SEQ ID NO: 17)

GCGACCTGGGACTGGTGATCCT (SEQ ID NO: 18)

GCCGACCAACTGAACTCCAACTCG (SEQ ID NO: 19)

GTCGCTGAACGGCACCTACTTCA (SEQ ID NO: 20)

CAGCCTGCGGTCATGTCCTCGG (SEQ ID NO: 21) CGCCAGTTTGAGAACGGAGTCACC (SEQ ID NO: 22) GCGCGATCTTCTCCACTTCATCGG (SEQ ID NO: 23) GCCTCCGCGATTGAACATCGTGAT (SEQ ID NO: 24) GTAGCCGGAGTCGAGCGGAATCAT (SEQ ID NO: 25) GTGAGCATGGAATCGGCAGTCGTT (SEQ ID NO: 26) CGAGGAGTTTCGGACCCGCTTTGA (SEQ ID NO: 27) AATAGGACCGGCAGAACGGGCATT (SEQ ID NO: 28) GCGCCTTCTCCTCTTTGCAGATGT (SEQ ID NO: 29) CAGTATGGTACGGACACGAAGCGC (SEQ ID NO: 30) GCATCATTGCGCGTCACATCTGGT (SEQ ID NO: 31) TCTGAACTGCGGCTATCACCTGGA (SEQ ID NO: 32) AATTGATGGCTTCTCAGGCGCAGG (SEQ ID NO: 33) AGTCATGGGACTGAATACGGCGACT (SEQ ID NO: 34) TTCTCGGTGTCGAGGGATTCTCGG (SEQ ID NO: 35) TGGTAGCTCTCGACGTACTGGCTG (SEQ ID NO: 36) CCCGTTGCTCATAACCCGTTCCTG (SEQ ID NO: 37) AGGGCATTCTCAGGTGGACTCAGG (SEQ ID NO: 38) ACCTGTGTCGCTGGAGGGTATGTT (SEQ ID NO: 39) AGCGTCCCTGACCAACCTCATCAG (SEQ ID NO: 40) CGCCAACAATTCGCCATTACAGCG (SEQ ID NO: 41) TCCAACAGGCAGGAGTACAGGGTG (SEQ ID NO: 42) CGCTGCACATACAGGTCCGTTCTC (SEQ ID NO: 43) AGCCCAGCAATTGCGTGTTTCTCCG (SEQ ID NO: 44) AGCCCAGCAACTGCGTGTTTCTCC (SEQ ID NO: 45) GCTGCTGGCGGCGGTGTGC (SEQ ID NO: 46) TGCTGCTGGCAGCGGTGTGCT (SEQ ID NO: 47) CAGAAAGCTCAGCAGACTGCTGACGAG (SEQ ID NO: 48) GAAAGCTCAGCAGACCGCTGACGAG (SEQ ID NO: 49) ACGGCCGCGGGTGACGCC (SEQ ID NO: 50) ACGGCCGCCAGGTGACGCCG (SEQ ID NO: 51) GCCGACCTACGCGCCGGGC (SEQ ID NO: 52) AGCCGACCTATGCGCCGGGCA (SEQ ID NO: 53)

GTTCGAACGCTCATGGAGCAGCA (SEQ ID NO: 54)

GTTCGAACGACTCATGGAGCAGCAAG (SEQ ID NO: 55)

CAGCCCAGTCAGGACGCGCA (SEQ ID NO: 56)

AGTGACGTGCGTTTCAGCAGTCCC (SEQ ID NO: 57)

GTGTCACGGCCCATGTCTAGCAGC (SEQ ID NO: 58)

CGAAGTCTGAGGTGTGGACCCGC (SEQ ID NO: 59)

CGCTGGAGGGTATGTTCCGCAAGG (SEQ ID NO: 60)

CGTACTCAGCTTCTCCACCCAGCG (SEQ ID NO: 61)

CCTGGACCTCTCCAAGGTTCGCCT (SEQ ID NO: 62)

GCCATTCCGACGACCAAACAAGGC (SEQ ID NO: 63)

Besides, the use of oligonucleotide probes or their modifications described below, which are specific for the following nucleic acids, is also conceivable within the scope of the present invention:

GTCTCCCTGGAGCCTGCGAAAGTGGCTCGGTTGCGTAGCCGAC (SEQ ID NO: 64)

ATGTTGTATTTTCTTGCGGTATGAAGATGGGTGGTTGGGTCGGATATAGGTACTTCTC
TCTATTTTCTTTAATTGCTCTTATCTATGG (SEQ ID NO: 65)

GACCTCGACCCCGAGGGCTTCATGGCGTGTCGCGAACTCGCATGGCAACAGGC (SEQ ID NO: 66)

TGGTCAGCCGAGTAACCGGCAGTTGTCGCCAGGTCTGGAGAATCCCGCCATTAGCTTGATTCGACGGAACTATAGCGACTTTGGTCCAACTCTGGCCCAG (SEQ ID NO: 67)

ATGGGCAAGAGAGTGGTTGTATTGCTATGGCTGCTATTCACATCAATGTCAGCCCACG CCATCGATAAAAAAGTCAA (SEQ ID NO: 68)

CGCCAGGGCGAATTGGGTCAGCAAGCAACGCGCCGGAGGCATGCCTGGGTT CGCCAGGGGCGTGCC (SEQ ID NO: 69)

GTTCCTGGAACGAGGGTGATGGCTGGGAATACGTGGAGGCGCCACAGCCG (SEQ ID NO: 70)

ATGTTCGTACATGACAAGCGACTGCAGTACACCGTCAGGGTCGC (SEQ ID NO: 71)

The following oligonucleotide probes or their modifications described below are particularly suitable for specifically detecting SNPs in conserved genes of *Pseudomonas aeruginosa*:

oriC T-C_wt	GAAGCCCAGCAATTGCGTGTTTC (SEQ ID NO: 72)
oriC T-C_mut_1	GAAGCCCAGCAACTGCGTGTTTC (SEQ ID NO: 73)
oriC T-C_wt_1	AGCCCAGCAATTGCGTGTTTCTCCG (SEQ ID NO: 74)
oriC T-C_mut_2	AGCCCAGCAACTGCGTGTTTCTCC (SEQ ID NO: 75)
oprL T-C_wt_1	GGTGCTGCAGGGTGTTTCGCCGG (SEQ ID NO: 76)
oprL T-C_mut_1	GGTGCTGCAGGGCGTTTCGCCGG (SEQ ID NO: 77)
fliC a A-T_wt_1	CAAGATCGCCGCAGCGGTCAAC (SEQ ID NO: 78)
fliC a A-T_mut_1	CAAGATCGCCGCTGCGGTCAAC (SEQ ID NO: 79)
alkB2 G-A_wt_2	GCTGCTGGCGGCGGTGTGC (SEQ ID NO: 82)
alkB2 G-A_mut_2	TGCTGCTGGCAGCGGTGTGCT (SEQ ID NO: 83)
alkB2 A-G_wt_1	CCTCGCCCTGTTCCCACCGCTCTGG (SEQ ID NO: 84)
alkB2 A-G_mut_1	CTCGCCCTGTTCCCGCCGCTCTGG (SEQ ID NO: 85)
citS A-G_wt_1	TCGAGCAACTGGCAGAGAAATCCG (SEQ ID NO: 86)
citS A-G_mut_1	CGAGCAACTGGCGGAGAAATCCG (SEQ ID NO: 87)
citS G-C_wt_1	GCGGAAAACTTCCTGCACATGATGTT (SEQ ID NO: 88)
citS G-C_mut_1	GCGGAAAACTTCCTCCACATGATGTT (SEQ ID NO: 89)
oprl T-C_wt_1	AGCTCAGCAGACTGCTGACGAGG (SEQ ID NO: 90)
oprl T-C_mut_1	AGCTCAGCAGACCGCTGACGAG (SEQ ID NO: 91)
oprl T-C_wt_2	CAGAAAGCTCAGCAGACTGCTGACGAG (SEQ ID NO: 92)
oprl T-C_mut_2	GAAAGCTCAGCAGACCGCTGACGAG (SEQ ID NO: 93)
ampC_1 G-A_wt_2	ACGGCCGCCGGGTGACGCC (SEQ ID NO: 94)
ampC_1 G-A_mut_2	ACGGCCGCCAGGTGACGCCG (SEQ ID NO: 95)
ampC_2 C-T_wt	GACAAGATGCGCCTCGACGACC (SEQ ID NO: 96)
ampC_2 C-T_mut_1	GACAAGATGCGTCTCGACGACCG (SEQ ID NO: 97)
ampC_3 C-T_wt	AGCCGACCTACGCGCCGGGCAG (SEQ ID NO: 98)

ampC_3 C-T_mut_1	CAGCCGACCTATGCGCCGGGCAG (SEQ ID NO: 99)
ampC_3 C-T_wt_1	GCCGACCTACGCGCCGGGC (SEQ ID NO: 100)
ampC_3 C-T_mut_2	AGCCGACCTATGCGCCGGGCA (SEQ ID NO: 101)
ampC_4 G-A_wt_2	GTTCGAACGGCTCATGGAGCAGCA (SEQ ID NO: 102)
ampC_4 G-A_mut_2	GTTCGAACGACTCATGGAGCAGCAAG (SEQ ID NO: 103)
ampC_5 G-C_wt_1	TGGAGCAGCAAGTGTTCCCGGC (SEQ ID NO: 104)
ampC_5 G-C_mut_1	TGGAGCAGCAACTGTTCCCGGC (SEQ ID NO: 105)
ampC_6 T-C_wt	GAACAAGACCGGTTCCACCAACGG (SEQ ID NO: 106)
ampC_6 T-C_mut_1	AACAAGACCGGCTCCACCAACGG (SEQ ID NO: 107)
ampC_7 C-A_wt	GCGACCTGGGCCTGGTGATCCT (SEQ ID NO: 108)
ampC_7 C-A_mut_1	GCGACCTGGGACTGGTGATCCT (SEQ ID NO: 109)
oprL T-C_wt_2	GTGCTGCAGGGTGTTTCGCCG (SEQ ID NO: 110)
oprL T-C_mut_2	GCTGCAGGGCGTTTCGCCG (SEQ ID NO: 111)
oprl T-C_wt_3	GCTCAGCAGACTGCTGACGAGGCTAACG (SEQ ID NO:
<u>112)</u>	
oprl T-C_mut_3	GCTCAGCAGACCGCTGACGAGGCTAAC (SEQ ID NO:
<u>113)</u>	
ampC_3 C-T_wt_2	CGACCTACGCGCCGGGCAG (SEQ ID NO: 114)
ampC_3 C-T_mut_3	CGACCTATGCGCCGGGCAGC (SEQ ID NO: 115)
ampC_4 G-A_wt_3	CGTTCGAACGGCTCATGGAGCAG (SEQ ID NO: 116)
ampC_4 G-A_mut_3	CGTTCGAACGACTCATGGAGCAGC (SEQ ID NO: 117)
ampC_7 C-A_wt_1	CGACCTGGGCCTGGTGATCCT (SEQ ID NO: 118)
ampC_7 C-A_mut_2	GCGACCTGGGACTGGTGATCCTGG (SEQ ID NO: 119)

The following oligonucleotide probes or their modifications described below are particularly suitable for detecting DNA sequences not present in all *Pseudomonas aeruginos*a strains.

C-47-1	GCGCGATCTTCTCCACTTCATCGG (SEQ ID NO: 120)
C-45	CGAGGAGTTTCGGACCCGCTTTGA (SEQ ID NO: 121)
C-46	AATAGGACCGGCAGAACGGGCATT (SEQ ID NO: 122)
C-46_1	CGAAGTCTGAGGTGTGGACCCGC (SEQ ID NO: 123)
C-spezifisch-1	GCATCATTGCGCGTCACATCTGGT (SEQ ID NO: 124)
pKL-3	TCTGAACTGCGGCTATCACCTGGA (SEQ ID NO: 125)

pKL-11	AGTCATGGGACTGAATACGGCGACT (SEQ ID NO: 126)
PAGI-1-1	TTCTCGGTGTCGAGGGATTCTCGG (SEQ ID NO: 127)
PAGI-1-8	TGGTAGCTCTCGACGTACTGGCTG (SEQ ID NO: 128)
SG17M-1	CCCGTTGCTCATAACCCGTTCCTG (SEQ ID NO: 129)
SG17M-4	AGGGCATTCTCAGGTGGACTCAGG (SEQ ID NO: 130)
C-Inselspez4	GCGCCTTCTCCTCTTTGCAGATGT (SEQ ID NO: 131)
C-Inselspez5	CAGTATGGTACGGACACGAAGCGC (SEQ ID NO: 132)
TB-C47-3	TCCAACAGGCAGGAGTACAGGGTG (SEQ ID NO: 133)
TB-C47-4	CGCTGCACATACAGGTCCGTTCTC (SEQ ID NO: 134)
fliC a A-T_wt_2	CAAGATCGCCGCAGCGGTCAACGAC (SEQ ID NO: 135)
fliC a A-T_mut_2	CAAGATCGCCGCTGCGGTCAACGAC (SEQ ID NO: 136)
PA2221	CAGTTGTCGCCAGGTCTGGAGAATCC (SEQ ID NO: 137)
PA3835	CACATCAATGTCAGCCCACGCCA (SEQ ID NO: 138)
PA0728	CTGGAGCCTGCGAAAGTGGCTC (SEQ ID NO: 139)
PA2185	ACGAGGGTGATGGCTGGGAATACG (SEQ ID NO: 140)
PA0636	GCCAATTGGGTCAGCAAGCAACG (SEQ ID NO: 141)
PA0722	CGTGTCGCGAACTCGCATGGC (SEQ ID NO: 142)
Pyov-Rez-Type_I	CCTGAATCCGACCATTCGCGAGTC (SEQ ID NO: 143)
Pyov-Rez-Type_IIa	TCGGACTGTACTCCTACGAAGCAGC (SEQ ID NO: 144)
Pyov-Rez-Type_IIb	CCAATCCCTATCGCTGGAACCGTACC (SEQ ID NO: 145)
Pyov-Rez-Type_III	GCTCGGGACTCGCATTTCGTCC (SEQ ID NO: 146)
Pyov-Rez-Fpv_B	GCGTTATTGCTCGGTCTCTCCTCG (SEQ ID NO: 147)
C-Inselspez1	GACCGCAAGCAGAAACGGCATGC (SEQ ID NO: 148)
C-Inselspez6	CCATGGTCGGAACAGGCACGATATGC (SEQ ID NO: 149)
C-47-1_2	CCACTCGATCATGTTGAGCATCGGCTCC (SEQ ID NO: 150)
SG17M-8	GGTTAGTCCCTTCTGCCCGCATCG (SEQ ID NO: 151)

The following oligonucleotide probes or their modifications described below are particularly suitable for detecting pathogenicity islets:

47D7-1_1	GTGTCACGGCCCATGTCTAGCAGC (SEQ ID NO: 152)
47D7-2	GTGAGCATGGAATCGGCAGTCGTT (SEQ ID NO: 153)
fla-insel-1	ACCTGTGTCGCTGGAGGGTATGTT (SEQ ID NO: 154)

fla-islet-2_orfA	CGCTGGAGGGTATGTTCCGCAAGG (SEQ ID NO: 155)
fla-islet-2_orfC	CGTACTCAGCTTCTCCACCCAGCG (SEQ ID NO: 156)
fla-islet-2_orfl	CCTGGACCTCTCCAAGGTTCGCCT (SEQ ID NO: 157)
fla-islet-2_orfJ	GCCATTCCGACGACCAAACAAGGC (SEQ ID NO: 158)
47D7-2_2	AGGCCATGGGCTAGCCGGATGC (SEQ ID NO: 159)
PAPI-2-XF1753	CGAAGCGTAGGGTCTTCGTAGCC (SEQ ID NO: 160)
PAPI-2-acetyltrans	TGCGAGGACCAGAAACCTTGATGG (SEQ ID NO: 161)
PA0980	CGGTATGAAGATGGGTGGTTGGGTCG (SEQ ID NO: 162)
LES	TGCATAGGAGTCATGCCGACAGCA (SEQ ID NO: 163)
PKLC102-unbekan	nt GCCTGCCTACTTGTTCCCAACGC (SEQ ID NO: 164)
PKLC102-adhesin	GGCTGTATTGCCCGCCATTCTCC (SEQ ID NO: 165)
PKLC102-stoffw	CGACAGACAGAAAGGGTTCTTGCGC (SEQ ID NO: 166)
pKL-1	CACCATGCAAATGCTCGATGGACTGC (SEQ ID NO: 167)
TB-C47-3_2	GCAGGCGTCCAAGTTGGAGCTCTCC (SEQ ID NO: 168)
PAPI-1_pili-chap	GGAACACAACGTGGGGCGTGAC (SEQ ID NO: 169)
PAPI-1_lum_bin_p	ro CCAGTTGGCACCACCATGCTTGC (SEQ ID NO: 170)

The following nucleic acid probe molecules or their modifications described below are particularly suitable for detecting disease-associated genes like *exoS* and *exoU*:

exoS-1_1	CAGCCCAGTCAGGACGCGCA (SEQ ID NO: 171)
exoU	CGCCAGTTTGAGAACGGAGTCACC (SEQ ID NO: 172)
exoU_1	AGTGACGTGCGTTTCAGCAGTCCC (SEQ ID NO: 173)

The following nucleic acid probe molecules or their modifications described below are particularly suitable for identifying the flagella type:

fliC b	GCCGACCAACTGAACTCCAACTCG (SEQ ID NO: 174)
fliC a	GTCGCTGAACGGCACCTACTTCA (SEQ ID NO: 175)

Please delete the paragraphs on page 23, line 15 to page 37, line 20 and replace them with the following paragraphs:

In particular, the primers employed within the scope of the methods of the present invention have the amounts and sequences (all primers are listed in 5'to 3' direction) given in the following. However, the primers listed in the following are also suitable for any other methods known to the person skilled in the art for amplifying nucleic acids.

47-1/23

ACGCGGATGTCCTGGATTTGG (SEQ ID NO: 176)

47-1/39

CTGAAGAAGGGGCGCTACGCG (SEQ ID NO: 177)

47-2/22

GCGTACCGGGCAAGGTGATAG (SEQ ID NO: 178)

47-2/52

CTCGGTGAAACATCGGGAGGG (SEQ ID NO: 179)

C45/18

TCATCCAGCAAGCCATTGCGC (SEQ ID NO: 180)

C45/60a

GGAGTCGCTTTCCGCCATCG (SEQ ID NO: 181)

C45/60b

TGGAGTCGCTTTCCGCCATCG (SEQ ID NO: 182)

C46/15

AAGGGCGTTTCACGCTGACGC (SEQ ID NO: 183)

C46/22

ATCCGGAAGGGCGTTTCACG (SEQ ID NO: 184)

C46/88

TCCACACCTCAGACTTCGGCG (SEQ ID NO: 185)

C47-1/43

TATTGACGACCTACCGCGCGC (SEQ ID NO: 186)

C47-2/56a

GCAACTGATGTTCGCCCAGC (SEQ ID NO: 187)

C47-2/56b

CGCAACTGATGTTCGCCCAGC (SEQ ID NO: 188)

C47-2/59

ACACGCAACTGATGTTCGCCC (SEQ ID NO: 189)

CIS-4/36

TGTCCCGGCTCAGTTCAACG (SEQ ID NO: 190)

CIS-4/50

AACACCTTGGCGTTTGTCCC (SEQ ID NO: 191)

CIS-4/51

GCAACACCTTGGCGTTTGTCC (SEQ ID NO: 192)

CIS-5/4

TCAAGCTCGTTGTGGACCGC (SEQ ID NO: 193)

CIS-5/48

GTTACGACGCGTGCTGTCGG (SEQ ID NO: 194)

CSP-1/39a

ACGCAACGTATTCGGCGACCC (SEQ ID NO: 195)

CSP-1/39b

CGCAACGTATTCGGCGACCC (SEQ ID NO: 196)

fliAT/28

AGCTGATGGTATCGCCGTCGC (SEQ ID NO: 197)

fliAT/72

CTAGTGATCGCACCGGAGCC (SEQ ID NO: 198)

oriC/20

AGCCTCGACACCGGTTCTCG (SEQ ID NO: 199)

oriC/54

TCGTTCATCCCCAGGCTTCG (SEQ ID NO: 200)

oriC/59

ACCATCTCGTTCATCCCCAGG (SEQ ID NO: 201)

oprL/53

TTCTGAGCCCAGGACTGCTCG (SEQ ID NO: 202)

oprL/65

TCGACGCGACGGTTCTGAGCC (SEQ ID NO: 203)

fliCb/36

TGACGTTCTCGCCGGTAGCG (SEQ ID NO: 204)

fliCb/65

CAGTAGCGGTACCGGTCTGCG (SEQ ID NO: 205)

fliCb/66

CAGTAGCGGTACCGGTCTGC (SEQ ID NO: 206)

alkAG/27

TTCCTCGCCGGCATAGTAGGC (SEQ ID NO: 207)

alkGA/32

Atty. Dkt. No. 15111.0087

GGGGTCGAGACGTGTACATGG (SEQ ID NO: 208)

alkGA/51

CGAGGACGAGGCATCTTCCGG (SEQ ID NO: 209)

citAG/4

GCAGGTAGCAGGTTTCCAGG (SEQ ID NO: 210)

citAG/46

AACTGTTCCTTCTGCGCGGCG (SEQ ID NO: 211)

citGC/8

TGATCGGCTTGGTCTCGCAGG (SEQ ID NO: 212)

citGC/11

GCTGATCGGCTTGGTCTCGC (SEQ ID NO: 213)

citGC/75

GAGGCGTTCTGCTCGTGGTCG (SEQ ID NO: 214)

oprl/12

TTTTTCCAGCATGCGCAGGG (SEQ ID NO: 215)

oprl/17

GCTGGCTTTTTCCAGCATGCG (SEQ ID NO: 216)

oprl/22

TTGCGGCTGGCTTTTTCCAGC (SEQ ID NO: 217)

am7CA/1

TTGGGATAGTTGCGGTTGGC (SEQ ID NO: 218)

am7CA/27

CGTAGGCGATCTTCACCCGC (SEQ ID NO: 219)

am7CA/29

TGGCGTAGGCGATCTTCACCC (SEQ ID NO: 220)

am3CT/21

GGCGAGATAGCCGAACAGGC (SEQ ID NO: 221)

am3CT/22

GCGGCGAGATAGCCGAACAGG (SEQ ID NO: 222)

am3CT/69

CACTTGCTGCTCCATGAGCC (SEQ ID NO: 223)

am2CT/35

GAGGTCGAGCAGGCTGATGC (SEQ ID NO: 224)

am2CT/42

TAGGTCGCGAGGTCGAGCAGG (SEQ ID NO: 225)

am2CT/92

GTCCTTCTGCACCGAGTCGG (SEQ ID NO: 226)

am1GA/49

CGCATCTTGTCCTGGGTCAGG (SEQ ID NO: 227)

am1GA/58

TCGTCGAGGCGCATCTTGTCC (SEQ ID NO: 228)

am45/1

ACGTCGAGGTGGGTCTGTTCG (SEQ ID NO: 229)

am45/96

GTAGCCTTCGGCATCCAGCG (SEQ ID NO: 230)

am6TC/60 TCGGCATTGGGATAGTTGCGG (SEQ ID NO: 231) GI11/15 CCTCCTGTCTCATGCCGATGC (SEQ ID NO: 232) GI11/59 GCATTCGCCACGGAAGGAAGG (SEQ ID NO: 233) GI11/71 GAAGGCATCATGGCATTCGCC (SEQ ID NO: 234) GI18/62 GTCATGGGGTTTCCCAGAGACC (SEQ ID NO: 235) fliCa/41 GATCGCGATGTCGACGGTGCC (SEQ ID NO: 236) fliCa/42 CGATCGCGATGTCGACGGTGC (SEQ ID NO: 237) fliCa/46 TGCCGATCGCGATGTCGACG (SEQ ID NO: 238) SG-1/40 GACGAATACCCAGCTGCGTGG (SEQ ID NO: 239) SG-1/43

SG-4/67

SG-4/1

GCAGACGAATACCCAGCTGCG (SEQ ID NO: 240)

CGCGACGTCGTGACGTCAGC (SEQ ID NO: 241)

Atty. Dkt. No. 15111.0087

ACTTTCGGCTCTTCGGGCTGG (SEQ ID NO: 242)

TB46/21

AGGTAGAGACTCGGGGGAACC (SEQ ID NO: 243)

TB46/45

TCGTTTTCGGTCATGGCCAGG (SEQ ID NO: 244)

TB471/22

TTCCGCGACGAACATCCGTGG (SEQ ID NO: 245)

TB471/25

CGCTTCCGCGACGAACATCCG (SEQ ID NO: 246)

TB472/36

GGATCGCTTCCGATAGGGCAGC (SEQ ID NO: 247)

TB472/84

AGAGGCATGGGTCTGTACCG (SEQ ID NO: 248)

TB473/34

TCTGTCAATCCCCTTTGGGG (SEQ ID NO: 249)

TB473/41

AGCCCCTTTCTGTCAATCCCC (SEQ ID NO: 250)

TB474/36

GGCTTCCTACCGAAGGTCAGG (SEQ ID NO: 251)

TB474/41

TGAGGGCTTCCTACCGAAGG (SEQ ID NO: 252)

exoS/31

TTCAAGGTCATGGGCAATGCC (SEQ ID NO: 253)

exoS/37

AGTCCCTTCAAGGTCATGGGC (SEQ ID NO: 254)

exoU/22

GCCGACTGAGCTGTAGCTCGG (SEQ ID NO: 255)

exoU/23

GGCCGACTGAGCTGTAGCTCG (SEQ ID NO: 256)

exoU/42

ACCAGACTGGTCAATGGTGG (SEQ ID NO: 257)

flins/2

CCCGTGTTTCCGTAGACCTTGC (SEQ ID NO: 258)

pKL11/49a

AGCAGTTACCCACAGCATGG (SEQ ID NO: 259)

pKL11/49b

CAGCAGTTACCCACAGCATGG (SEQ ID NO: 260)

pKL3/47

CTACACTCCAACCGCTGGTCC (SEQ ID NO: 261)

pKL3/50

GACCTACACTCCAACCGCTGG (SEQ ID NO: 262)

pKL3/80

TTCCCTTGCTGCCGAGAAGC (SEQ ID NO: 263)

pKL7/14

TAATAGGCGAGCCTGCCGTCC (SEQ ID NO: 264)

Atty. Dkt. No. 15111.0087

47D7nw1a

TCCACGCCGAGGGACGTGCC (SEQ ID NO: 265)

47D7nw1b

GCTCCACGCCGAGGGACGTGCC (SEQ ID NO: 266)

C46-nw1a

CGCGGTGCTGGTTGCGCTGC (SEQ ID NO: 267)

C46-nw1b

CCAATGCCCAGGGCCAGCGGA (SEQ ID NO: 268)

C46-nw1c

CGCTGGCAGTTCCGCTGGCC (SEQ ID NO: 269)

ExoSnw1a

CAGGGTCGCCAGCTCGCC (SEQ ID NO: 270)

ExoSnw1b

AGGGTCGCCAGCTCGCTCGC (SEQ ID NO: 271)

ExoUnw1a

AGTGATCTGCCGCGGCCCTGCC (SEQ ID NO: 272)

ExoUnw1b

GTGATCTGCCGCGGCCCTGC (SEQ ID NO: 273)

OrfA-1

GTTCCACAGGCGCTGCGGCGC (SEQ ID NO: 274)

OrfA-2

GTTCCACAGGCGCTGCGGCG (SEQ ID NO: 275)

OrfA-3

CAAAGCCCCTGGTCGCGCGG (SEQ ID NO: 276)

OrfC-1

GCAGCTTTTCCACCGCCGGCGG (SEQ ID NO: 277)

Orfi-1

AAACTGCCCGCCCCCCATCC (SEQ ID NO: 278)

Orfl-2

GGAAAAACTGCCCCGCCCCCC (SEQ ID NO: 279)

OrfJ-1

ACGCTCGCAGCGCCTCACGCG (SEQ ID NO: 280)

OrfJ-2

GGCCTGGCTGCGAACGCTCGC (SEQ ID NO: 281)

PA2221/37_Pa-P_064

TTCCTGGGCCAGAGTTGGACC (SEQ ID NO: 282)

PA2221/66_Pa-P_065

AGCTTAAGGCCGTGGCACTCG (SEQ ID NO: 283)

PA3835/46_Pa-P_066

CCGGAGAATTCGCGTCCACC (SEQ ID NO: 284)

PA3835/72_Pa-P_067

TGCTGACGATGAAGCCCCAGC (SEQ ID NO: 285)

47-22/3_Pa-P_072

AGGAGGCCGATGACAACACCC (SEQ ID NO: 286)

47-22/67_Pa-P_073

TGCCGATTCCATGCTCACGCC (SEQ ID NO: 287)

pl2X1753/29_Pa-P_074

ACGACGTCACCGTCGAGACCG (SEQ ID NO: 288)

pl2X1753/69_Pa-P_075

ACCGCCTTTCTGGTGAGCTGG (SEQ ID NO: 289)

PA0728/42_Pa-P_076

AGCCAAGACGGTTGTTCGCGG (SEQ ID NO: 290)

PA0728/88_Pa-P_077

TCAATGACGCCGAGTTGGCGC (SEQ ID NO: 291)

PA2185-1/42_Pa-P_078

CTCGGACAGGTTCACGCTGG (SEQ ID NO: 292)

PA2185-1/70_Pa-P_079

GCCATTCGCTGCAACACCTCC (SEQ ID NO: 293)

pl2actrf/39_Pa-P_085

GCGCGCGTTCGAGAAACAGG (SEQ ID NO: 294)

pl2actrf/93_Pa-P_086

CGGAGGTTGAAAAGCTGGCCC (SEQ ID NO: 295)

PA0636/29_Pa-P_087

ATGCCATCGTTGAAGGCACCGC (SEQ ID NO: 296)

PA0636/30_Pa-P_088

TGCCATCGTTGAAGGCACCG (SEQ ID NO: 297)

PA0722/4_Pa-P_089

TCTGGCGGAATCAGGTAGGCC (SEQ ID NO: 298)

PA0722/55_Pa-P_090

CTTCCGGGGAGAAACCACCG (SEQ ID NO: 299)

PA0980/45_Pa-P_093

ACCTCCAGCACCGACACCC (SEQ ID NO: 300)

PA0980/53_Pa-P_094

ATCCGATCCACCTCCAGCACC (SEQ ID NO: 301)

Fpval/23_Pa-P_095

CGTTCAGGTCGTAGACCGCGC (SEQ ID NO: 302)

Fpval/84_Pa-P_096

GCGATACCAACTGTCCTGCGGC (SEQ ID NO: 303)

Fpvalla/34_Pa-P_097

TGCCGAAGGTGAATGGCTTGCC (SEQ ID NO: 304)

Fpvalla/65_Pa-P_098

CCTGATGGTCCGATCCCAGC (SEQ ID NO: 305)

Fpvallb/44_Pa-P_099

GCCGAGGGTCAAGAACCACTGG (SEQ ID NO: 306)

Fpvallb/67_Pa-P_100

TCTTGGCCCAGTCATAGCGGC (SEQ ID NO: 307)

FpvallI/16_Pa-P_101

TAACCCCAAGGCCCATTGGAGG (SEQ ID NO: 308)

Fpvalll/31_Pa-P_102

GCCACCGCCTTCGAATAACCCC (SEQ ID NO: 309)

FpvB/57_Pa-P_103

AATTGCTCGAGGGATGCGGC (SEQ ID NO: 310)

FpvB/92_Pa-P_104

GGTCGAAACGGATGCGCAGG (SEQ ID NO: 311)

LES/11_Pa-P_105

GCCCCGCGTCATTTTCACGTCG (SEQ ID NO: 312)

LES/57_Pa-P_106

AATGCTCTGGGCAACGAGCC (SEQ ID NO: 313)

pKLunbek/63_Pa-P_107

CTACCCAGCTTGGGCGTAGC (SEQ ID NO: 314)

pKLunbek/141_Pa-P_108

AAGCGATAGCCGTGCTCCTGC (SEQ ID NO: 315)

pKLadh/13_Pa-P_109

CCGGCTATATCCGCGGCTACC (SEQ ID NO: 316)

pKLadh/59_Pa-P_110

ATTGGCGCTGTTTACGCCC (SEQ ID NO: 317)

pKLstw/30_Pa-P_111

GGTGGCGTCGGGTTTTTCTGC (SEQ ID NO: 318)

pKLstw/46_Pa-P_112

AGGTCGTAGCGGAAGGTGGTGG (SEQ ID NO: 319)

pKL-1/22_Pa-P_113

ATCTGAACCGAGGGGATCCGC (SEQ ID NO: 320)

pKL-1/61_Pa-P_114

CCCGGGAGTCATTGGTCTGG (SEQ ID NO: 321)

T47-32/19_Pa-P_117

GCCTGTTGGACCCCTTTGACC (SEQ ID NO: 322)

T47-32/26_Pa-P_118

TACTCCTGCCTGTTGGACCCC (SEQ ID NO: 323)

pl1pil/15_Pa-P_121

CGCTCAAGCGCTATCCCACC (SEQ ID NO: 324)

pl1pil/41_Pa-P_122

CGCCATCGGCCTGTACAACG (SEQ ID NO: 325)

pl1lumin/87_Pa-P_123

CGGTAGAGAGCTGGGTTGGC (SEQ ID NO: 326)

pl1lumin/209_Pa-P_124

AACCTGGAGCTAGGGCAGAGC (SEQ ID NO: 327)

C-Ins1/39_Pa-P_125

GGTGCTCGACCCAAGCATCG (SEQ ID NO: 328)

C-Ins1/57_Pa-P_126

TCCTTGAGTTCCTTGGCGCGG (SEQ ID NO: 329)

C-Ins6/42_Pa-P_131

CAACACGCGACTGGCGATCC (SEQ ID NO: 330)

C-Ins6/61_Pa-P_132

TACATCATCCGCAACGGCGGC (SEQ ID NO: 331)

C47-12/2_Pa-P_137

TATTGACGACCTACCGCGCGCC (SEQ ID NO: 332)

C47-12/94_Pa-P_138
CACCAAGAACCCGCTGCTCG (SEQ ID NO: 333)

SG-8/14_Pa-P_141
ATCGTGGCAGGATGTCCACCG (SEQ ID NO: 334)

SG-8/86_Pa-P_142
TAGGCGGCCTTTTGAAGGTGC (SEQ ID NO: 335)

Please delete the paragraphs on page 46, lines 9-13 and replace them with the following paragraphs:

Figure 17 shows the nucleotide sequences of the primers used in the Example (SEQ ID NOS 176-207 and 209-281, respectively, in order or appearance).

Oligonucleotide probes according to the present invention as well as the layout of the oligonucleotide probes on the nucleic acid chip according to the present invention are shown in the Figures 18 to 21. <u>Figure 18 discloses SEQ ID NOS 72-73, 76-81, 84-91 and 5-63, respectively, in order of appearance. Figure 19 discloses SEQ ID NOS 72-79, 82-109, 174-175, 171-173, 120, 152-153, 121-123, 131-132, 124-128, 37-38, 154, 133-134 and 155-158, respectively, in order of appearance.</u>